

## INTERNATIONAL SEARCH REPORT

International application No

PCT/JP00/00134

LASSIFICATION OF SUBJECT MATTER Int.Cl<sup>7</sup> B21D 5/02

reording to International Patent Classification (IPC) or to both national classification and IPC

## FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl7 B21D 5/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Toroku Jitsuyo Shinan Koho 1994-2000 1922-1996 Jitsuyo Shinan Koho Jirsuyo Shinan Toroku Koho 1996-2000 1971-2000 Kokai Jitsuyo Shinan Koho

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP, 5-7936, A (Yamazaki Mazak Corp.), 19 February, 1993 (19.02.93), Par. Nos. [0008] to [0017]; Figs. 1.2 Full text; Figs. 1 to 36 & EP, 0392795, A	1 2-42
Y A	JP, 6-304660, A (NISSHINBO INDUSTRIES, INC.), 01 November, 1994 (01.11.94), Claims; Figs. 1 to 10 Full text; Figs. 1 to 10 (Family: none)	1,7,12-13 2-6,8-11,14-42
Y A	<pre>JP, 7-275941, A (AMADA Co., LTD., et al.), 24 October, 1995 (24.10.95), Par. Nos. [0012] to [0017]; Figs. 1 to 3 Full text; Figs. 1 to 3 (Family: none)</pre>	1,7,12-13 2-6,8-11,14-42
Y	JP, 59-88273, A (AMADA Co., LTD.), 22 May, 1984 (22.05.84), page 9, upper left column, line 14 to page 9, upper right column, line 1; Fig. 1 (Family: none)	7
	JP. 9-108738, A (KUBOTA Corporation),	

Further documents are listed in the continuation of Box C.

See patent family annex

- "A" document defining the general state of the an which is not considered to be of particular relevance eartier document but published on or after the international filing ۳Ē. date ..L.
  - document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other
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- document published prior to the international filing date but later than the priority date claimed
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Date of mailing of the international search report Date of the actual completion of the international search 11 April, 2000 (11.04.00) 30 March, 2000 (30.03.00)

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(Continuat	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	the colouant passages	Relevant to claim No.
Zategory*	Citation of document, with indication, where appropriate, of		12-13
Y	28 April, 1997 (28.04.97), Par. Nos. [0015] to [0017]; Fig. 1 (1	Family: none)	
X A	<pre>Jp, 11-718, A (AMADA Co., LTD.), 06 January, 1999 (06.01.99), Full text; Figs. 1 to 6 Full text; Figs. 1 to 6</pre>		18,21,26,29, 34,36-37,39 1-17,19-20,22- 25,27-28,30-33,35,38,40-42
	(Family: none)		,35,30,40-42
X A	<pre>JP, 10-225724, A (AMADA Co., LTD.), 25 August, 1998 (25.08.98), Full text: Figs. 1 to 5</pre> Full text: Figs. 1 to 5		18,21,26,29, 34,36-37,39 1-17,19-20,22 25,27-28,30-3 ,35,38,40-42
	(Family: none)		
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